

-24" C.I. MH FRAME & COVER TOP TO BE FLUSH WITH STREETS, ¾" CEMENT MORTAR ¬ WALKS OR RESIDENTIAL AREAS. ∠2" ASPHALT ┌4"BASE VARIES FOR WOODS OR OTHER AREAS OUT OF PATHS OR TRAFFIC. TOP TO BE AS NOTED ON PLANS. ON UNPAVED ROADS PROVIDE 8" COVER OVER LID, -GROUT INSIDE & AND SET A LABELED CONCRETE OUTSIDE WITH MONUMENT NEAREST R.O.W. LIMIT. APPROVED 1 COURSE OF BRICK OR NON-SHRINKING PRE CAST LEVELING RINGS (8" MAXIMUM) --MANHOLE IN ACCORDANCE WITH ASTM C478 MANHOLE COATINGS -PRE CAST BARREL PER SPECIFICATIONS -SECTIONS 2,3,4 BARREL DIA. FOOT LENGTHS ⇒ 4'-0" UNLESS OTHERWISE 5" MIN. WALL THICKNESS NOTED FOR 4' DIA. BARREL ON PLANS 6" MIN. WALL THICKNESS FOR 5' DIA. BARREL AND TYPE "S" MORTAR SLOPE=1"/FT-SLIDE OF LARGEST SEWER PIPE COMPACTED SUBGRADE-└6" MIN. STONE BEDDING FOUNDATION LESS THAN 30" DROP

PRECAST CONCRETE FLAT TOP MANHOLE TYPICAL

__24" C.I. MH FRAME & COVER TOP TO BE FLUSH WITH STREETS, WALKS OR RESIDENTIAL AREAS. MANHOLE COATINGS PER SPECIFICATIONS --TEE - (FOR FORCE MAIN USE 90° ELBOW W/ RESTRAINED JOINTS CUT TO PROVIDE W/ 4' MIN. COVER) MAINTENANCE (NO MORE THAN HALF) -~INFLUENT PIPE MH STEP STAINLESS STEEL STRAPS & ANCHORS (TO BE SPACED @ 30" BETWEEN STRAPS). SEE "STRAP DETAIL" THIS SHEET BARREL DIAMETER 5'-0" MINIMUM, UNLESS OTHERWISE_ PVC DROP PIPE TO BE SAME SIZE AS INFLUENT PIPE NOTED ON PLANS FOR INFLUENT TRANSITION IF NECESSARY AT 8" OR LARGER ¼ BEND-PLACE THE LOWER BEND AT ELEVATION SHOWN ON PLANS, ¾ THE DIA. OF LARGEST NOT ON MANHOLE BENCH, AND DIRECT FLOW OUT OF MANHOLE. SEWER PIPE END OF DROP PIPE SHALL BE GROUTED INTO BENCH AND CUT AT ANGLE OF BENCH -2.500 PSI CONCRETE 28 DAY STRENGTH FOR

MESH INSECT SCREEN

EXTEND VENT 2'-0" ABOVE OR STANLESS

STRAPS 2'-0" O.C. FROM BOTTOM 2-¾" x 3" SST ANCHOR BOLTS PER STRAP

FILL PIPE WITH TYPE "S" MORTAR

CAP

STANDARD VENT MANHOLE

NOT TO SCALE

PROJECT REFERENCE NO.

U-4751

UC-3c

10/17/2017

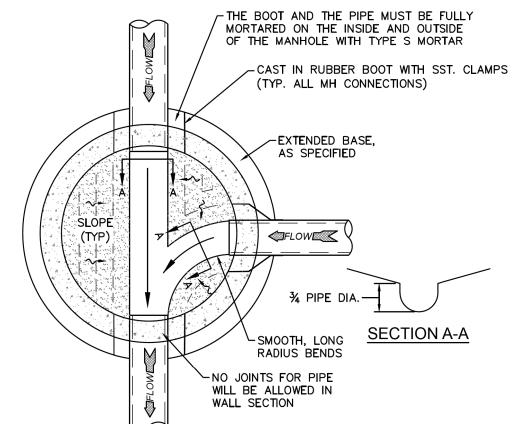
SD-3 DROP MANHOLE

NOT TO SCALE

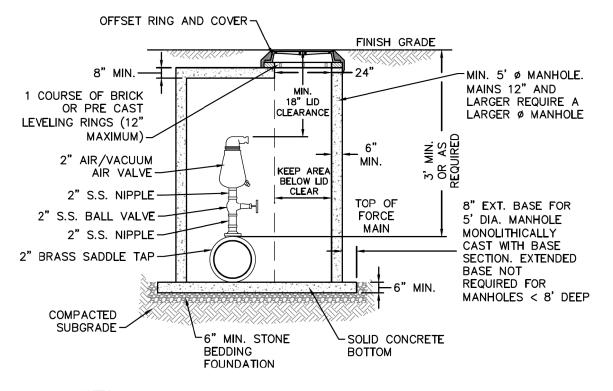
MORE THAN 30" DROP

PRECAST CONCRETE OFFSET MANHOLE TYPICAL

NOT TO SCALE



SD-5 MANHOLE FLOOR PLAN
NOT TO SCALE



NOT TO SCALE

NOTES:

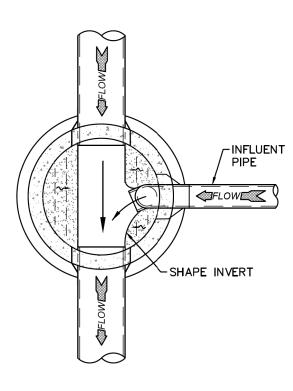
1. CONTRACTOR TO INSTALL VALVE AND MANHOLE AT SUFFICIENT DEPTH TO ALLOW FOR ACCESS.

2. FORCE MAIN TO BE OFFSET IN MANHOLE TO KEEP AREA BELOW LID CLEAR.

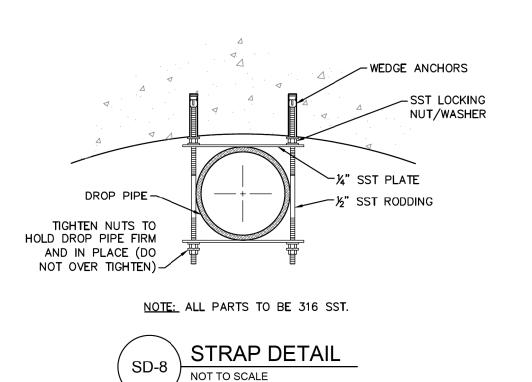
3. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

4. USE CAST IN RUBBER BOOT WITH SST. CLAMPS FOR ALL MH CONNECTIONS, INCLUDING FORCE MAIN.

AIR/ VACUUM AND AIR
RELEASE COMBINATION VALVE
NOT TO SCALE



SD-7 DROP MANHOLE FLOOR PLAN
NOT TO SCALE



CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS

- STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.

 2. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT—OF—WAY LINE. SEWER SERVICES IN CUL—DE—SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE
- MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.

 3. ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
- 4. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
 ALL STAINLESS STEEL FASTENERS SHALL BE 316.
 CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

SD-9 STANDARD NOTES
(REQUIRED ON ALL PLAN AND PROFILE SHEETS)

GENERAL NOTES:

1. NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE—WAY.

2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE

ANY CONSTRUCTION BEGINS.

3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS.

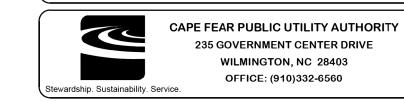
4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS.

5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS).

THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

CFPUA SANITARY SEWER

STANDARD DETAILS



PLANS PREPARED BY:

RUMMEL, KLEPPER & KAHL, LLP
900 RIDGEFIELD DRIVE SUITE 350

RALEIGH, NORTH CAROLINA 27609–3960

NC LICENSE NO. F-0112 (919) 878–9560